

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Papathanassiu et al.)	Examiner: To be assigned
Application No. To be Assigned)	
Filed: January 22, 2001)	Art. Unit: To be assigned
For: Compositions and Methods)	
For Inhibiting Cellular)	
Proliferation)	

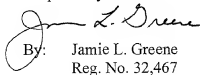
TRANSMITTAL OF SEQUENCE LISTING UNDER 37 C.F.R. § 1.821(e)

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Applicants hereby submit a paper copy of the Sequence Listing for the application filed currently herewith. Pursuant to 37 C.F.R. § 1.821(e), a computer readable form is not included. The paper copy submitted herewith is identical to both the paper copy and the computer readable form that were previously submitted on January 11, 1999 in related U.S. Patent Application No. 09/227,955. Also pursuant to 37 C.F.R. § 1.821, no new matter, pertaining to the sequences as originally filed, has been added.

Respectfully submitted,


By: Jamie L. Greene
Reg. No. 32,467

KILPATRICK STOCKTON LLP
2400 Monarch Tower
3424 Peachtree Road, N.E.
Atlanta, Georgia 30326
(404) 949-2400
Our Docket: 05213-0294 (KS # 43170-252538)

SEQUENCE LISTING

(1) GENERAL INFORMATION:

5

(i) APPLICANT: Papathanassiu, Adonia E
Green, Shawn J.

10

(ii) TITLE OF INVENTION: Compositions and Methods for
Inhibiting Cellular Proliferation

(iii) NUMBER OF SEQUENCES: 2

15

(iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Jones & Askew
- (B) STREET: 191 Peachtree Street, 37th Floor
- (C) CITY: Atlanta
- (D) STATE: Georgia
- (E) COUNTRY: U.S.A.
- (F) ZIP: 30303

20

(v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

25

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: US
- (B) FILING DATE:
- (C) CLASSIFICATION:

30

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Greene, Jamie L.
- (B) REGISTRATION NUMBER: 32,467
- (C) REFERENCE/DOCKET NUMBER: 05213-0290

35

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (404) 818-3700
- (B) TELEFAX: (404) 818-3799

40

(2) INFORMATION FOR SEQ ID NO:1:

- 5 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 276 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- 10 (ii) MOLECULE TYPE: protein
- (iii) HYPOTHETICAL: NO
- 15 (iv) ANTI-SENSE: NO
- (v) FRAGMENT TYPE: N-terminal
- (vi) ORIGINAL SOURCE:
 (A) ORGANISM: Homo sapiens
- 20 (ix) FEATURE:
 (A) NAME/KEY: Active-site
 (B) LOCATION: 2..3
 (D) OTHER INFORMATION: /note= "Site of partial
 25 phosphorylation"
- (ix) FEATURE:
 (A) NAME/KEY: Active-site
 (B) LOCATION: 117..118
 30 (D) OTHER INFORMATION: /note= "Potential site for N-linked
 glycosylation"
- (ix) FEATURE:
 (A) NAME/KEY: Active-site
 35 (B) LOCATION: 167..168
 (D) OTHER INFORMATION: /note= "Potential site for N-linked
 glycosylation"
- (ix) FEATURE:
 40 (A) NAME/KEY: Active-site
 (B) LOCATION: 228..229
 (D) OTHER INFORMATION: /note= "Potential site for N-linked
 glycosylation"
- 45 (ix) FEATURE:
 (A) NAME/KEY: Domain
 (B) LOCATION: 26..76
 (D) OTHER INFORMATION: /label= Kunitz-1

(ix) FEATURE:

(A) NAME/KEY: Domain

(B) LOCATION: 97..147

(D) OTHER INFORMATION: /label= Kunitz-2

5

(ix) FEATURE:

(A) NAME/KEY: Domain

(B) LOCATION: 189..239

(D) OTHER INFORMATION: /label= Kunitz-3

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

15

Asp Ser Glu Glu Asp Glu Glu His Thr Ile Ile Thr Asp Thr Glu Leu
 1 5 10 15

Pro Pro Leu Lys Leu Met His Ser Phe Cys Ala Phe Lys Ala Asp Asp
 20 25 30

20

Gly Pro Cys Lys Ala Ile Met Lys Arg Phe Phe Phe Asn Ile Phe Thr
 35 40 45

25

Arg Gln Cys Glu Glu Phe Ile Tyr Gly Gly Cys Glu Gly Asn Gln Asn
 50 55 60

Arg Phe Glu Ser Leu Glu Glu Cys Lys Lys Met Cys Thr Arg Asp Asn
 65 70 75 80

30

Ala Asn Arg Ile Ile Lys Thr Thr Leu Gln Gln Glu Lys Pro Asp Phe
 85 90 95

Cys Phe Leu Glu Glu Asp Pro Gly Ile Cys Arg Gly Tyr Ile Thr Arg
 100 105 110

35

Tyr Phe Tyr Asn Asn Gln Thr Lys Gln Cys Glu Arg Phe Lys Tyr Gly
 115 120 125

Gly Cys Leu Gly Asn Met Asn Asn Phe Glu Thr Leu Glu Glu Cys Lys
 130 135 140

40

Asn Ile Cys Glu Asp Gly Pro Asn Gly Phe Gln Val Asp Asn Tyr Gly
 145 150 155 160

45

Thr Gln Leu Asn Ala Val Asn Asn Ser Leu Thr Pro Gln Ser Thr Lys
 165 170 175

Val Pro Ser Leu Phe Glu Phe His Gly Pro Ser Trp Cys Leu Thr Pro
 180 185 190

Ala Asp Arg Gly Leu Cys Arg Ala Asn Glu Asn Arg Phe Tyr Tyr Asn
 195 200 205
 5 Ser Val Ile Gly Lys Cys Arg Pro Phe Lys Tyr Ser Gly Cys Gly Gly
 210 215 220
 Asn Glu Asn Asn Phe Thr Ser Lys Gln Glu Cys Leu Arg Ala Cys Lys
 225 230 235 240
 10 Lys Gly Phe Ile Gln Arg Ile Ser Lys Gly Gly Leu Ile Lys Thr Lys
 245 250 255
 Arg Lys Arg Lys Lys Gln Arg Val Lys Ile Ala Tyr Glu Glu Ile Phe
 260 265 270
 15 Val Lys Asn Met
 275
 20
 25 (2) INFORMATION FOR SEQ ID NO:2:
 (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 213 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 30
 (ii) MOLECULE TYPE: protein
 35 (iii) HYPOTHETICAL: NO
 (iv) ANTI-SENSE: NO
 40 (v) FRAGMENT TYPE: N-terminal
 (vi) ORIGINAL SOURCE:
 (A) ORGANISM: Homo sapiens
 45

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

5 Asp Ala Ala Gln Glu Pro Thr Gly Asn Asn Ala Glu Ile Cys Leu Leu
 1 5 10 15
 Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu Leu Leu Arg Tyr Tyr Tyr
 20 25 30
 10 Asp Arg Tyr Thr Gln Ser Cys Arg Gln Phe Leu Tyr Gly Gly Cys Glu
 35 40 45
 Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu Ala Cys Asp Asp Ala Cys
 50 55 60
 15 Trp Arg Ile Glu Lys Val Pro Lys Val Cys Arg Leu Gln Val Ser Val
 65 70 75 80
 Asp Asp Gln Cys Glu Gly Ser Thr Glu Lys Tyr Phe Phe Asn Leu Ser
 85 90 95
 20 Ser Met Thr Cys Glu Lys Phe Phe Ser Gly Gly Cys His Arg Asn Arg
 100 105 110
 Ile Glu Asn Arg Phe Pro Asp Glu Ala Thr Cys Met Gly Phe Cys Ala
 115 120 125
 Pro Lys Lys Ile Pro Ser Phe Cys Tyr Ser Pro Lys Asp Glu Gly Leu
 130 135 140
 30 Cys Ser Ala Asn Val Thr Arg Tyr Tyr Phe Asn Pro Arg Tyr Arg Thr
 145 150 155 160
 Cys Asp Ala Phe Thr Tyr Thr Gly Cys Gly Gly Asn Asp Asn Asn .Phe
 165 170 175
 Val Ser Arg Glu Asp Cys Lys Arg Ala Cys Ala Lys Ala Leu Lys Lys
 180 185 190
 40 Lys Lys Lys Met Pro Lys Leu Arg Phe Ala Ser Arg Ile Arg Lys Ile
 195 200 205
 Arg Lys Lys Gln Phe
 210
 45